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## CLAIMS

- An electronic endoscope provided with a three-dimensional image capturing device, comprising:
  - a housing;
- a distance-measuring light source that outputs a distance-measuring light beam, which is a pulsed light beam and which is irradiated to a subject so that a first reflected light beam is generated by said subject;

a distance-measurement imaging device that receives said first reflected light beam, to accumulate electric charges in accordance with the received amount of said first reflected light beam;

a flexible tube that is connected to said housing, and that has an optic fiber along which at least one of said distance-measuring light beam and said first reflected light beam is transmitted; and

- a three-dimensional image sensing processor that controls the accumulating operation of said distance-measurement imaging device, to generate electric charges corresponding to a three-dimensional image of said subject.
- An electronic endoscope according to claim 1, wherein said distance-measuring light source is provided in said housing.
- 25 3. An electronic endoscope according to claim 2, wherein

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said distance-measurement imaging device is provided in said housing.

- 4. An electronic endoscope according to claim 1, wherein said three-dimensional image-sensing processor controls the accumulating operation in accordance with the length of said optic fiber.
- 5. An electronic endoscope according to claim 4, further comprising an illuminating light source that outputs an illuminating light beam, and a light-transmitting optical element that leads said distance-measuring light beam and said illuminating light beam to said optic fiber, said distance-measuring light source and said illuminating light source being disposed so as to face said light-transmitting optical element.
- 6. An electronic endoscope according to claim 5, further comprising a light-receiving optical element disposed in such a manner that said first reflected light beam, output from said optic fiber, enters said light-receiving optical element, said distance-measurement imaging device, and a two-dimensional image-sensing imaging device being disposed so as to face said light-receiving optical element.
- 7. An electronic endoscope according to claim 4, wherein said three-dimensional image sensing processor controls the accumulating operation in such a manner that a timing of the accumulating operation is delayed depending on the length of

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said optic fiber.

- 8. An electronic endoscope according to claim 1, further comprising an illuminating light source that continuously irradiates an illuminating light beam to said subject so that a second reflected light beam is generated by said subject, and a two-dimensional image-sensing imaging device that receives said second reflected light beam, to sense a two-dimensional image of said subject.
- An electronic endoscope according to claim 8, wherein said illuminating light source is provided in said housing.
  An electronic endoscope according to claim 8, wherein
- said two-dimensional image-sensing imaging device is provided in said housing.
- 11. An electronic endoscope according to claim 8, wherein said optic fiber comprises a light-transmitting optic fiber that irradiates said distance-measuring light beam and/or said illuminating light beam on said subject, and a light-receiving optic fiber that receives said reflected light beam generated by said subject.
- 12. An electronic endoscope according to claim 11, wherein said flexible tube is provided with a memory in which information indicating the length of each of said light-transmitting optic fiber and said light-receiving optic fiber is stored.